BAW SEQUENCE LISTING ERROR REPORT

FFB 0 4 2002

Date Processed by STIC:



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/993, /79

Source: 0//E

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checker



Raw Sequence Listing Error Summary

SUGGESTED CORRECTION

SERIAL NUMBER: <u>0</u>9/993, /79

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWAR

lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
Missligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.
8Skipped Sequences' (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
2Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3Misuse of n!	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



OIPE

RAW SEQUENCE LISTING DATE: 12/05/2001 TIME: 09:54:30 PATENT APPLICATION: US/09/993,179

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\11212001\I993179.raw

Does Not Comply Corrected Diskette Needed

3 <110> APPLICANT: McCarthy, Sean A. pr 1-3 Kuranda, Michael Joseph Bulawa, Christine Ellen Bossone, Steven

8 <120> TITLE OF INVENTION: METHOD FOR IDENTIFYING GENES ENCODING SIGNAL SEQUENCES

10 <130> FILE REFERENCE: 09404/032001

> 12 <140> CURRENT APPLICATION NUMBER: US/09/993,179
> 13 <141> CURRENT FILING DATE: 0007

15 <160> NUMBER OF SEQ ID NOS: 15

17 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

52 <210> SEQ ID NO: 2

53 <211> LENGTH: 50

54 <212> TYPE: PRT

55 <213> ORGANISM: Homo sapiens

57 <400> SEQUENCE: 2

58 Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu Gly Leu

E--> 59 1 -5~ S10 15

60 Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys Gln Arg 30

(20 25 62 Thr Leu Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser

(35 E--> 63

64 Pro Ser

50

112 <210> SEQ ID NO: 4

113 <211> LENGTH: 125

114 <212> TYPE: PRT

115 <213> ORGANISM: Homo sapiens

117 <400> SEQUENCE: 4

118 Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu Trp Ala

E--> 119 1 10 15

120 Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser

20 25 30

122 Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu

40 45 35

124 His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu Ala Glu

50 55 60

126 Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr

70 75 E--> 127 65 80

128 Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr

90 85 95

130 His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Glu Val Asn

100 105 110

132 Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser Pro Ser

musabjæl anerd och hos, (see item? on Erva Summary Steet)

DATE: 12/05/2001

TIME: 09:54:30

```
Input Set : A:\sequence listing.txt
                   Output Set: N:\CRF3\11212001\1993179.raw
E--> 133
           115
                    120
    135 <210> SEQ ID NO: 5
    136 <211> LENGTH: 32
    137 <212> TYPE: PRT
    138 <213> ORGANISM: Mus musculus
    140 <400> SEQUENCE: 5
    141 Met Lys Gly Ala Cys Ile Leu Ala Trp Leu Phe Ser Ser Leu Gly Val
E--> 142 1 5
                       10 15
                                                                       same
    143 Trp Arg Leu Ala Arg Pro Glu Thr Gln Asp Pro Ala Lys Cys Gln Arg
            20 25
                           . 30
E--> 144
    146 <210> SEQ ID NO: 6
    147 <211> LENGTH: 45
    148 <212> TYPE: PRT
    149 <213> ORGANISM: Homo sapiens
    151 <400> SEQUENCE: 6
    152 Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr
E--> 153 1
            5
                   10
                            15
    154 Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr
          20 25
E--> 155
                        30
    156 His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu
                 40
E--> 157
            35
                            45
    238 <210> SEQ ID NO: 14
    239 <211> LENGTH: 32
    240 <212> TYPE: PRT
    241 <213> ORGANISM: Homo sapiens
    243 <400> SEQUENCE: 14
    244 Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu Gly Leu
E--> 245 1 . 5 10 15
    246 Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys Gln Arg
              20 25
                             30
E--> 247
    249 <210> SEQ ID NO: 15
    250 <211> LENGTH: 108
    251 <212> TYPE: PRT
    252 <213> ORGANISM: Homo sapiens
    254 <400> SEQUENCE: 15
    255 Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu Trp Ala
E--> 256 1 5
                       10
                            15
    257 Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser
          20 25
                             30
E--> 258
    259 Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu
                                                                       same
E--> 260
           35
                     40
                           45
    261 His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Glu Ala Glu Met
E--> 262
            50
                55
                           60
    263 Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr Asp
            70 75
                                 80
E--> 264 65
    265 Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr His
         85
                        90
                             95
    267 Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu
E--> 268
             100 105
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/993,179

(see next page)

<400> 1

9	ggggaccgtg tttgtg	gccc ccaageeggf	t gecccccatt ttggaact	ca gcgagtaggg	60
9	ggcggctctg gggaag	tggc agggggcgc	a gcagctgctg cctccact	tc cctagccagg	120
İ	tgctgaagag gatctt	cgga gccgctctg	g cccccaggcg ctggatga	ct ggcaccagcg	180
(ctcctcgcac ctgtgt	tggt gtgtgagact	t tgggctggag tgcccacg	ıtg gctgtggagt	240
9	cagtgtgatt catgat	tgag gaaacgcgt	c ctccatcctc tctctcct	tg gcactttcca	300
(cacatgagga gaagaa	gage ttetgttta	g aagacacgtg cccagagt	ca gaggcccctt	360
9	gcccacc atg aag g	ga acc tgt gtt	ata gca tgg ctg ttc	tca agc ctg 409	,
	Met Lys Gly	Thr Cys Val I	le Ala Trp Leu Phe Se	er Ser Leu-)	
	1	5	10	and and	o acid directly
					/
				///	
Ç	ggg ctg tgg aga c	to goo cao coa	gag gcc cag ggt acg		under .
			gag gcc cag ggt acg Glu Ala Gln Gly Thr	act cag tgc 457	under .
				act cag tgc 457	respective anis aid

cag aga aca ctc gag gtg aat att gtt tcc ccc agc tcc aag gca aca 505 Gln Arg Thr Leu Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr 35 40 45

ttc agt cca agt Phe Ser Pro Ser 50 517

(plese correct this miselignment) in subsequent coding sequences

FYX

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/993,179

DATE: 12/05/2001 TIME: 09:54:31

Input Set : A:\sequence listing.txt
Output Set: N:\CRF3\11212001\1993179.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:41 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1 L:45 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1 L:49 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1 L:59 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2 M:332 Repeated in SeqNo=2 L:81 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:85 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:89 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:93 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:97 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:101 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:105 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:109 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:119 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4 M:332 Repeated in SeqNo=4 L:142 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5 M:332 Repeated in SeqNo=5 L:153 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6 M:332 Repeated in SeqNo=6 L:209 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11 L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 L:245 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:14 M:332 Repeated in SeqNo=14 L:256 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:15 M:332 Repeated in SeqNo=15